

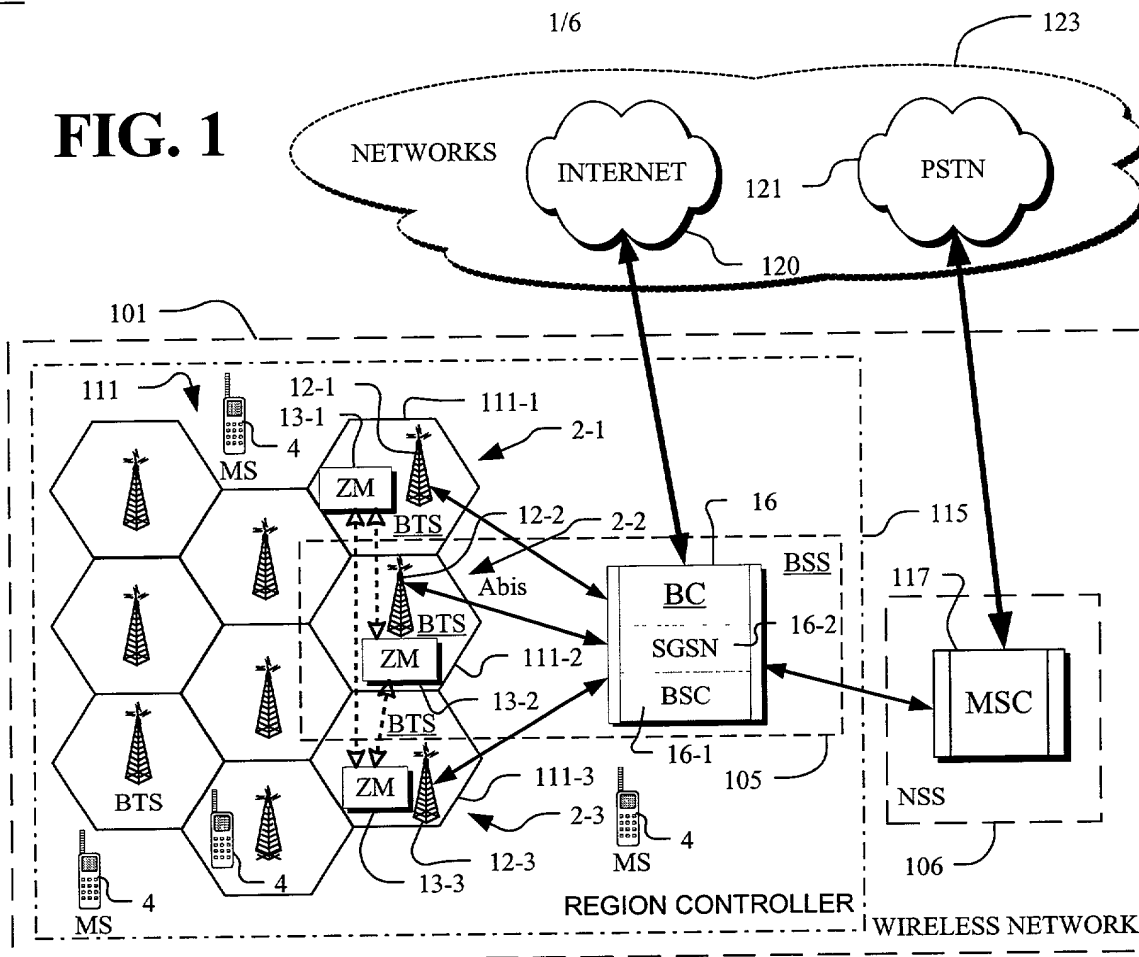
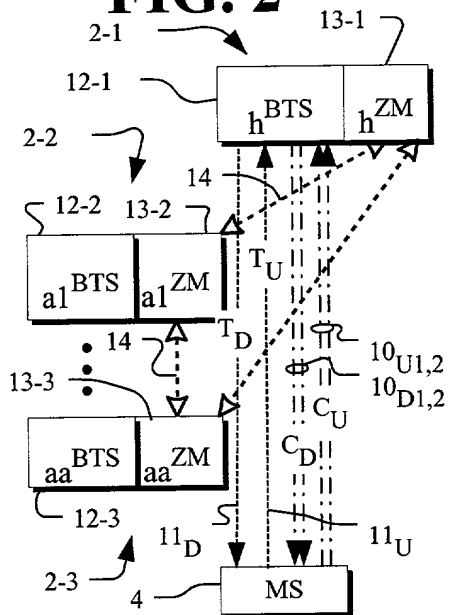
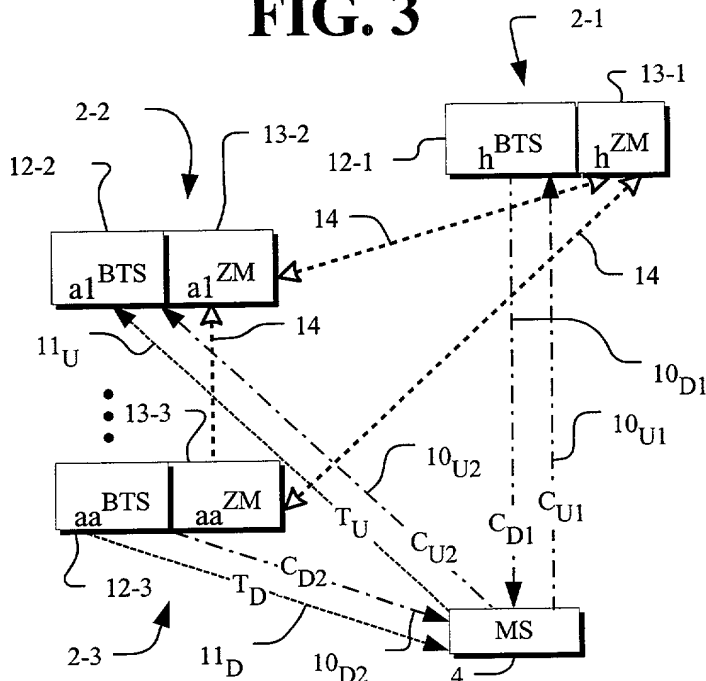
FIG. 1**FIG. 2****FIG. 3**

FIG. 4 is a detailed block diagram of a mobile communication system architecture. The diagram illustrates the following components and their interconnections:

- Core Network (5-1):** A dashed box containing a Base Station Controller (BSC) and a Base Station Gateway (SGSN). It is connected to the system via an **Abis** interface (16).
- Base Station (BS) Groups:**
 - Group 1 (1BS):** Includes **1BTS** and **1ZM** (13-1), connected by a bidirectional arrow (15-1).
 - Group 3 (3BS):** Includes **3BTS** and **3ZM** (13-3), connected by a bidirectional arrow (15-3).
 - Group a1 (a1BS):** Includes **a1ZM** (13-a1) and **a1BTS**, connected by a bidirectional arrow (12-a1).
- Mobile Stations (MS):**
 - MS₁** (4-1) and **MS₃** (4-3) are connected to the BS groups via dashed lines (10-1U1, 10-1D1, 10-1U2, 10-1D2).
 - MS_n** (4-n) is connected to the a1BS group via dashed lines (10-n, 11-n).
- Interfaces and Signaling:**
 - Abis** (5-2, 5-3, 5-n): Solid arrows representing data links between BTS and the core network.
 - A-bis** (6-1, 6-2, 6-n): Dashed arrows representing signaling links between BTS and the core network.
 - Internal Signaling:** Dashed arrows within BS groups (14_{1/3}, 14_{1/2}, 14_{3/2}) and between BS groups (14_{1/a1}, 14_{3/a1}).

FIG. 5

60

61-1

61-T₁

T

B

C

64

63

62-1

62-T₂

T

B

C

64

63

6-3

4-2

MS₂

10-2

11-2

2^{BS}

2^{ZM}

15-2

13-2

12-2

FIG. 6

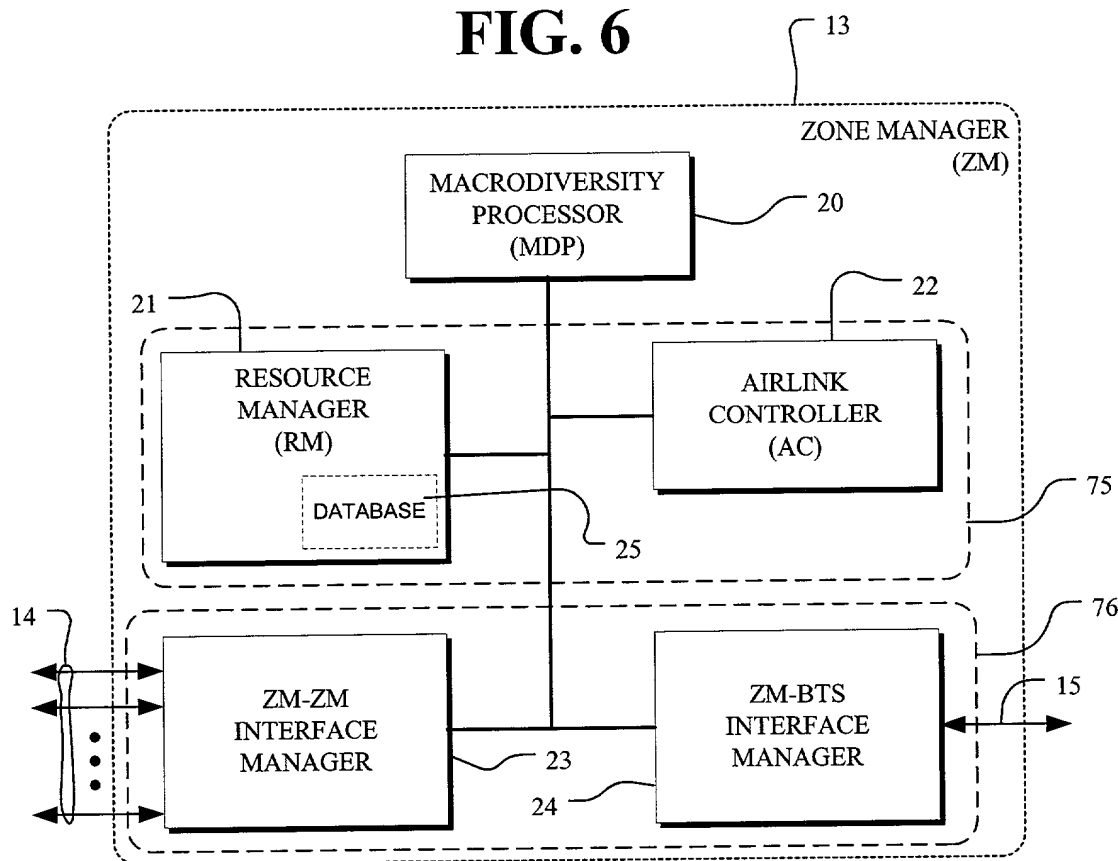


FIG. 7

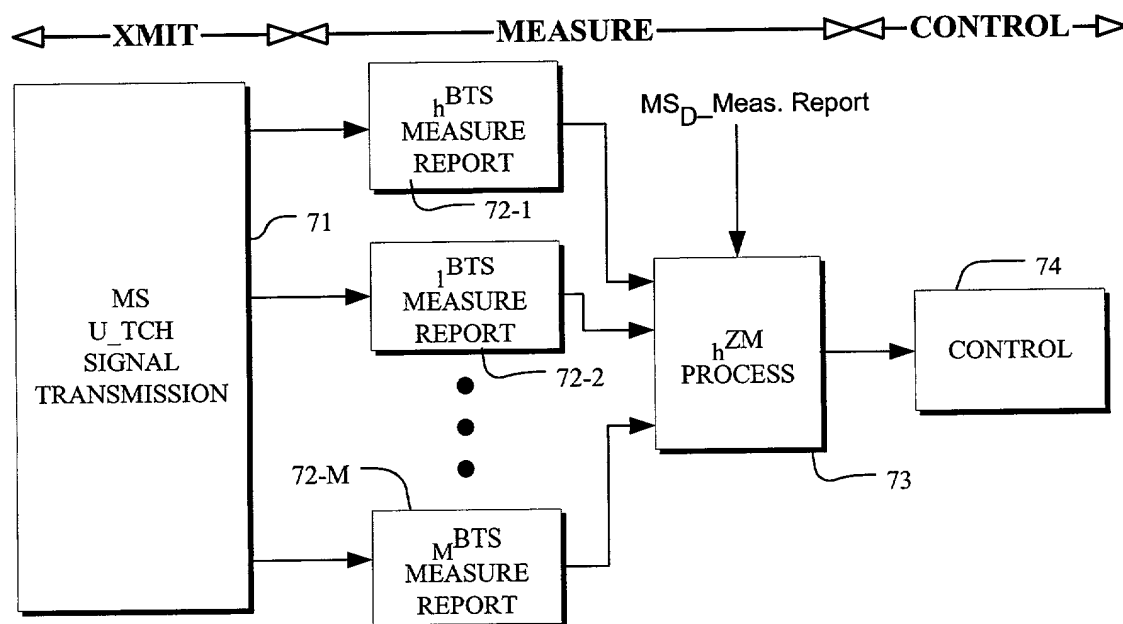


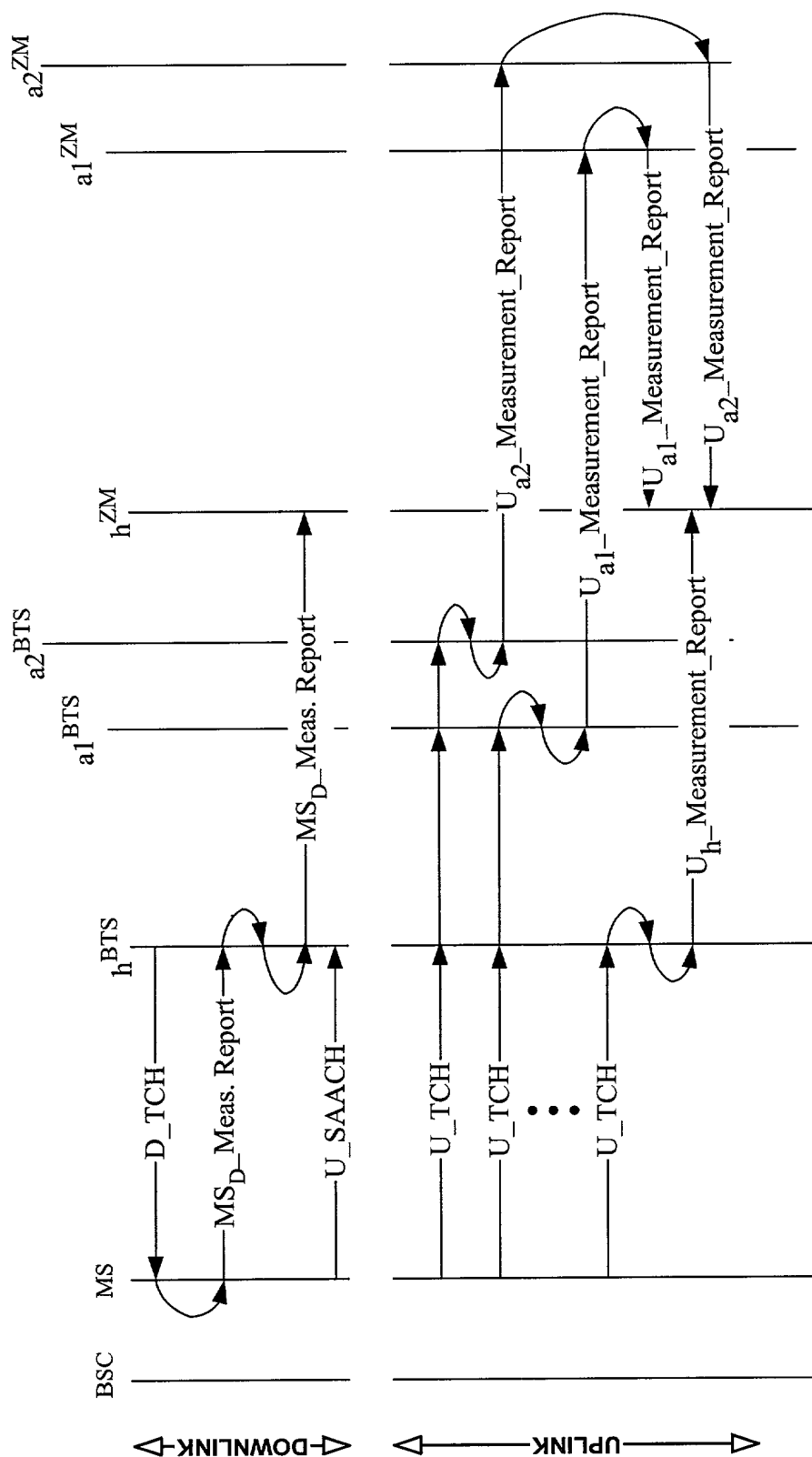
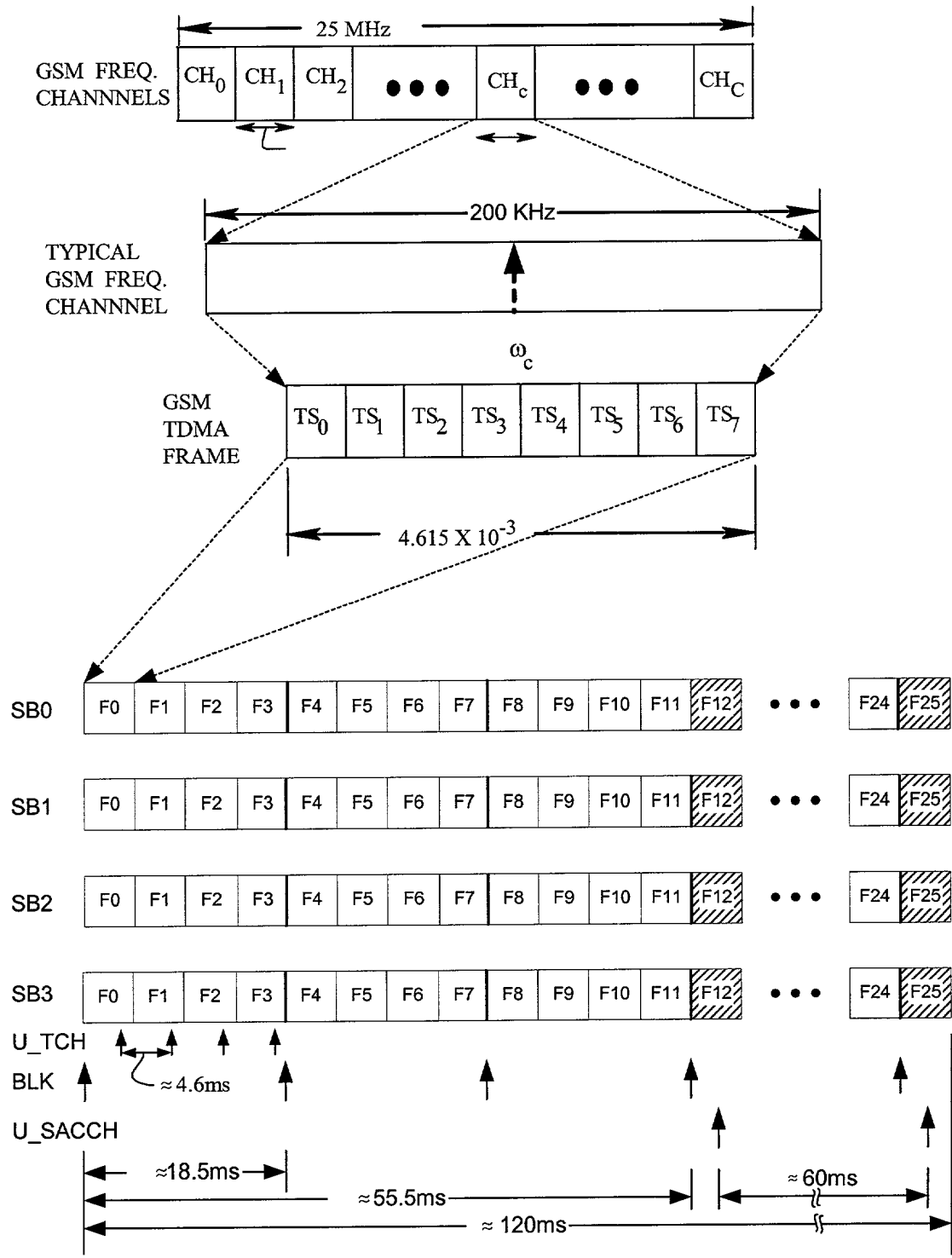
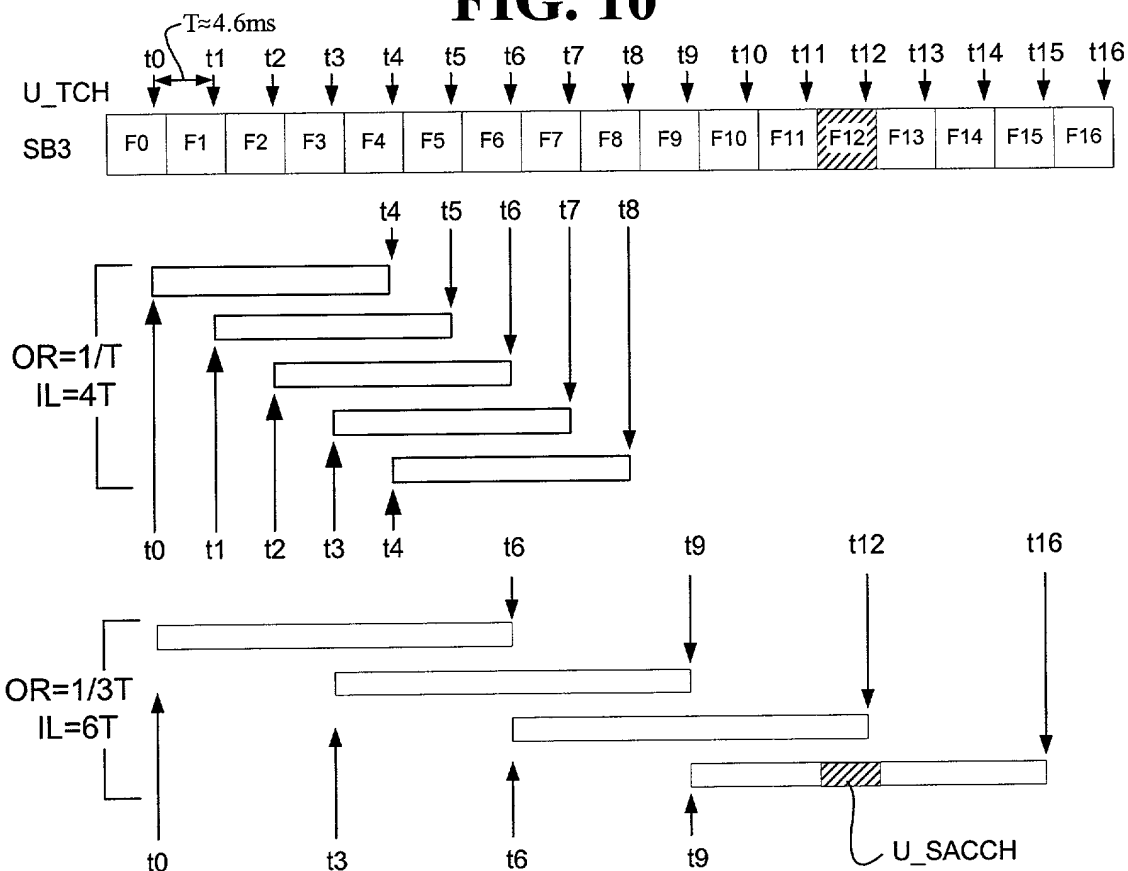
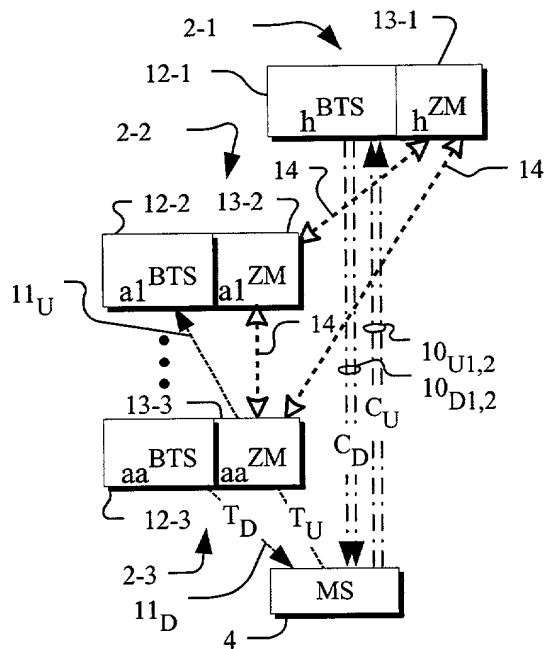
FIG. 8

FIG. 9



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FIG. 10**FIG. 11****FIG. 12**